

Title (en)

SUPPORTING STRUCTURES AND METHODS FOR A CENTRAL FRAME OF A DIRECT-DRIVE WIND TURBINE

Title (de)

TRAGSTRUKTUREN UND VERFAHREN FÜR EINEN ZENTRALRAHMEN EINER WINDTURBINE MIT DIREKTANTRIEB

Title (fr)

STRUCTURES ET PROCÉDÉS DE SUPPORT POUR UN CHASSIS CENTRAL D'UNE ÉOLIENNE À ENTRAÎNEMENT DIRECT

Publication

EP 4105478 A1 20221221 (EN)

Application

EP 21382531 A 20210615

Priority

EP 21382531 A 20210615

Abstract (en)

The present disclosure relates to supporting structures for a central frame of a direct-drive wind turbine and methods for managing such structures. A supporting structure is configured to assume a deployed configuration and a stowed configuration. In the stowed configuration, the supporting structure has a shape and size such that the supporting structure can be introduced into the central frame from an outside. In the deployed configuration, the supporting structure has one or more increased dimensions with respect to the stowed configuration, and comprises a working platform.

IPC 8 full level

F03D 15/20 (2016.01); **F03D 80/50** (2016.01); **F03D 80/80** (2016.01)

CPC (source: CN EP KR US)

F03D 13/20 (2016.05 - CN US); **F03D 15/20** (2016.05 - EP US); **F03D 80/00** (2016.05 - CN); **F03D 80/50** (2016.05 - EP KR); **F03D 80/80** (2016.05 - EP); **F03D 80/50** (2016.05 - US); **F05B 2230/80** (2013.01 - EP KR); **F05B 2240/14** (2013.01 - EP); **F05B 2240/912** (2013.01 - US); **F05B 2260/30** (2013.01 - US); **Y02E 10/72** (2013.01 - EP KR); **Y02E 10/727** (2013.01 - EP)

Citation (search report)

- [Y] US 2015016976 A1 20150115 - ROER JOCHEN [DE], et al
- [Y] EP 2698529 A1 20140219 - SIEMENS AG [DE]
- [A] US 2017030328 A1 20170202 - GUDEWER WILKO [DE], et al
- [A] EP 3253966 A1 20171213 - WINDFIN BV [NL]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4105478 A1 20221221; CN 115478988 A 20221216; JP 2022191161 A 20221227; KR 20220168146 A 20221222; US 11835027 B2 20231205; US 2022397094 A1 20221215

DOCDB simple family (application)

EP 21382531 A 20210615; CN 202210677280 A 20220615; JP 2022076812 A 20220509; KR 20220065239 A 20220527; US 202217834095 A 20220607